

# Modeling and Simulation Information Analysis Center (MSIAC)



# Briefing Outline

- **What is MSIAC**
- **What Services and Support Does it Provide - Why Should the Community Care?**
- **How Does a User Use MSIAC**
- **What's the Cost for Using MSIAC**
- **Summary**
- **Questions**

# What is MSIAC Mission?

## GENERAL IAC MISSION

- **Improve the productivity** of Defense researchers, engineers, operators, and program managers by:
  - Serving the research, development and acquisition communities
  - Collecting, analyzing, synthesizing and disseminating worldwide STOSI
- **Promote standardization** within specific technical areas.
- Provide in-depth analysis services
- Create specialized technical information products.

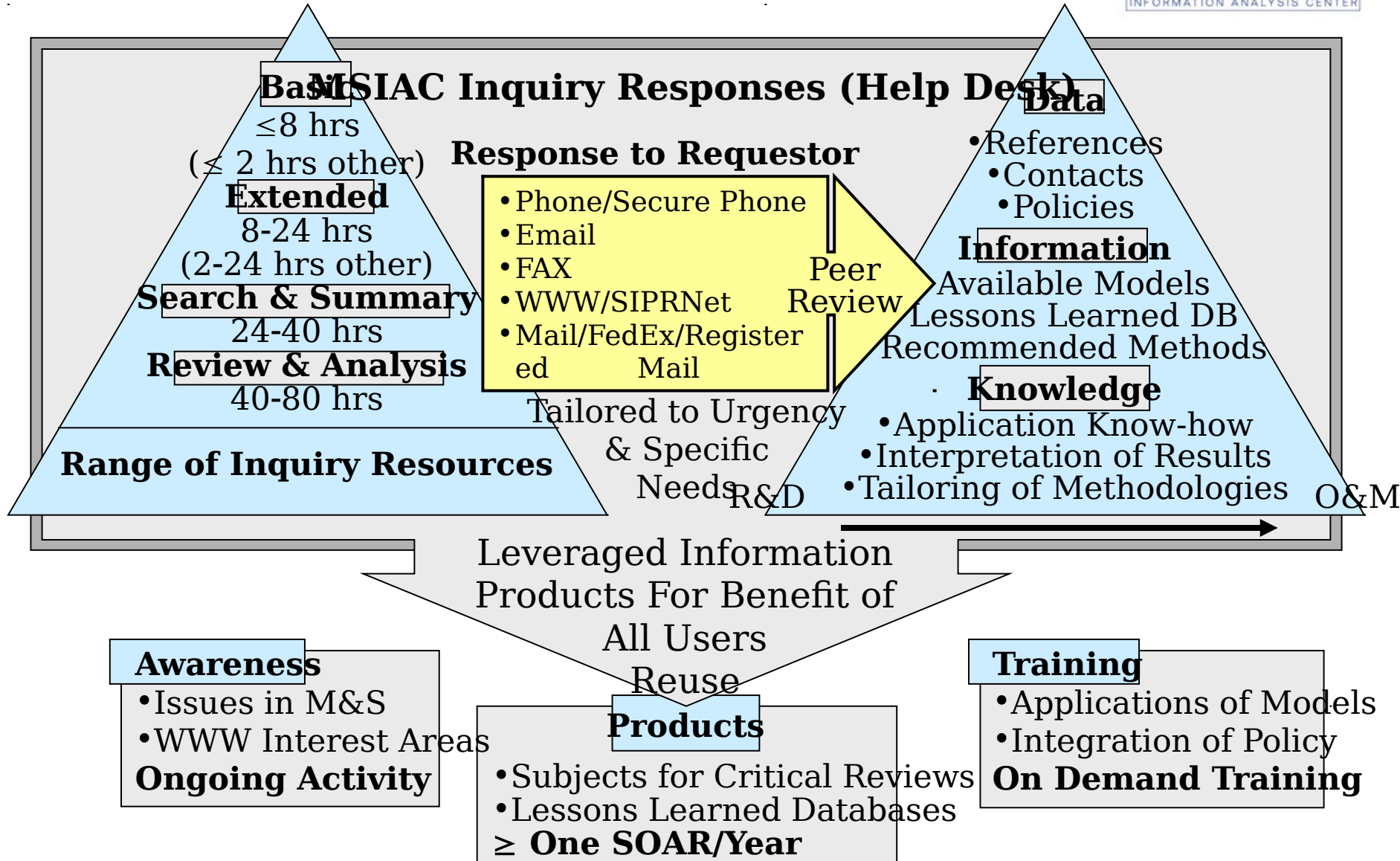
## MSIAC MISSION

- Be a **Center of Excellence for M&S** knowledge
- Productivity through **reuse and interoperability**
- Supporting M&S across all phases of life cycle
- Interface of real-world systems with M&S technology
- Application of M&S to support **operational effectiveness**
- TATs for operational support; S&T; E&T; employment of M&S; MSRR; software; conferences; VV&A; HLA

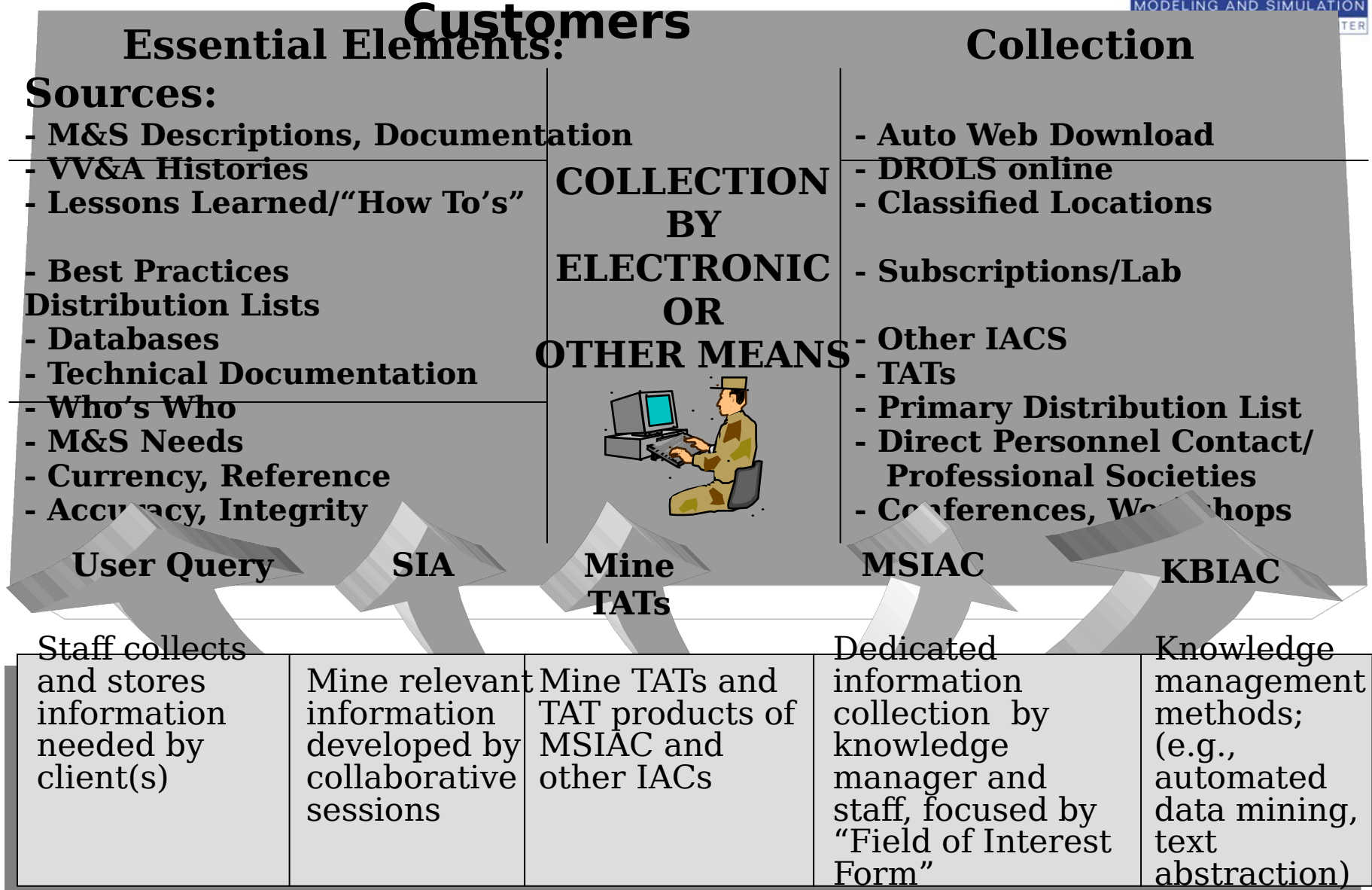
# What is MSIAC?

- **A Help Desk**
- **A Technical Support Staff**
  - **Independent Technical Assessment, IV&V, Design and Development support**
- **A Operational Support Staff**
  - **Event design, planning, execution support and assessment**
- **A M&S Knowledge Source**
- **A Place to Access Community Support Activities**
  - **M&S Calendar**
  - **M&S Special Interest Areas**
  - **Currently available: OOTW, Training, SBA, Master Plan, Impact Assessment, HOBM**
  - **M&S State of the Art**
  - **M&S Support Services**

# Solving User Problems



# MSIAC Information Supports over 3,000



# MSIAC Provides Access to M&S SMEs

## Define SME

### Criteria

- Ongoing **proactive** requirements
- Customer

### Specifications

## Identifying SME

- The Team
- Subcontractors
- MSOSA/DMSTTIAC SME Databases
- Standards Bodies
- Personal Networks
- Authors Search
- Major M&S Conferences
- Industry, Academia

## SME Database

as of 1/14/99

RecID: 153 Contact Code: 55

Honorific Title: First MI Last: Grade: GS-15

MI Org: U.S. Forces SubOrg: KBSC SubOrgSupported: Korea Battle Sim SecSupported: DoD

PhoneOrg: 011-822-79 15-802 FaxOrg: 011-822-79 15-802

Street/Address: Korea Battle Simulation Center CityCode/State/Zip: APO AP 96204-0050

Country: EmailOrg: SheaJ@usfk.korea.army.mil

OrgJob Title: Director Team Community

Category total: 28 92 117 103 103

Common Tech Framework	Common Services	Employment Knowledge	Technical Exploitation	Technical Knowledge
<input type="checkbox"/> HLA HelpDesk	<input type="checkbox"/> RepResources	<input checked="" type="checkbox"/> CAX_Design	<input checked="" type="checkbox"/> DecisionSpTools	<input type="checkbox"/> Object Or Pgm
<input type="checkbox"/> HLA Comoli Test	<input type="checkbox"/> W&A	<input checked="" type="checkbox"/> CampaignDev	<input type="checkbox"/> CaseTools	<input type="checkbox"/> DataModeling
<input type="checkbox"/> HLA Standards	<input type="checkbox"/> Repositories	<input type="checkbox"/> SBA	<input type="checkbox"/> Virtua Prototyping	<input checked="" type="checkbox"/> Modeling
<input type="checkbox"/> HLA TechJewel	<input type="checkbox"/> CommNetworks	<input checked="" type="checkbox"/> ExDesign	<input type="checkbox"/> CALI/CAM	<input type="checkbox"/> Computer Science
<input type="checkbox"/> DataStandards	<input type="checkbox"/> HelpDesks	<input type="checkbox"/> Experiment	<input type="checkbox"/> SBA	<input type="checkbox"/> Other...
<input type="checkbox"/> CMMS	<input type="checkbox"/> Fincation	<input checked="" type="checkbox"/> Training	<input checked="" type="checkbox"/> DOTW	
<input type="checkbox"/> Other...	<input checked="" type="checkbox"/> Training	<input type="checkbox"/> DOTW	<input checked="" type="checkbox"/> WMD	
	<input type="checkbox"/> QualityImpact	<input type="checkbox"/> WMD	<input type="checkbox"/> Other...	
	<input type="checkbox"/> Other...	<input type="checkbox"/> Complex Emerg		
		<input type="checkbox"/> Other...		

Competence Level: (5 H)

Remarks:

## Acquiring SM

- Community SME
- Matrix from Team
- Subcontractor SM

## SME Referral

- Knowledge Manager
- Help Desk Staff
- TAT Managers
- Community Access

# MSIAC Products & Services Are Significantly Impacting DoD

## • NATO M&S Master Plan

Fostered simulation **reuse and interoperability in NATO**

## • MPARE Master Plan for SOCOM

Integrates mission planning, constructive simulations,

## • M&S Staff Officer Course

Five day course provides M&S orientation for staff officers

## • Smart Weapons Training Seminar

Hold nine times annually

## • PDD62: WMD M&S Assessment

DDR&E Uses for WMD R&D

## • Battle Lab Handbook for DMSO

Categorization of battle labs and resources

## • Database support for PM

Commanche

Source for free terrain database provided **cost**

**avoidance of \$1 million** for PM-Commanche

## • USEUCOM Spectrum Study

Basis for use of M&S in support of OOTW

## • USAREUR: Bosnia Training Tool Tradeoff

Assessment of Training Tools for Pre-Bosnia Deployment

## • CENTCOM-Middle East:

Planning process for Converting from Live

## • Joint Strike Fighter SIA

SIA web site provides forum for development/configuration control of JIMM

## • SBA SIA for DMSO

Collaborative SIA to develop SBA Roadmap

# Examples of How MSIAC Could Help

Representative Support Requirement	Representative Product/Service	Representative Approach (Begin by understanding user-based requirements & assist customer in defining his needs)
What Is JSAF?	User Inquiry Response <b>"White Paper on JSAF"</b> detailing capabilities & limitations	• Search MSRR, DROL, M&S Catalogs • Consult JSAF developers and user base • Synthesize, Peer Review and disseminate
M&S Employment Information ('How-To-Guide')	<b>SOAR</b> : User's Guide for use of M&S to support joint training	• Contact CINC staffs and SIM for documents • Establish Open Response Forum (ORF) • Synthesize results, Peer Review, and Disseminate
How Could I get Community Support to Develop a SBA Roadmap?	Other Current Awareness Product: <b>Special Interest Area</b> for SBA	• Obtain COTR Approval • Establish Special Interest Area, appoint facilitator, and execute
Military Exercise and Demonstration Support	<b>TAT</b> : Develop Recommendations for testing the 20-Ton Truck in a Virtual Environment	• Follow procedures in TAT Implementation Guide
M&S Education	Education and Training <b>On-Line M&amp;S Orientation Course</b>	• Conduct Needs Assessment • Obtain COTR approval for course & for cost recovery approach • Based on needs assessment, convert existing M&S 101 to DL Format • Gain IIT Accreditation (If desired) • Conduct Course—collect feedback

# MSIAC Extensive Existing Customer Base

## ARMY

- AMSO
- AMC
- ARL
- DUSA-IA
- DAMO-SS, TR
- DCSOPS
- DISC4
- NSC
- FT KNOX
- DSCDOC
- TRADOC
- FT HOOD
- STRICOM
- TARDEC
- FORCSOM

## OSD

- DTIC
- DUSD (Log)
- USD R/R&R
- DoDEA
- DMSO
- DIA
- DARPA
- AQ
- TNE
- DLA

## MARINE

- MCCDC

## NAVY

- SPAWAR
- NAVMSMO
- NAVAIR
- OEA
- NAVSEA
- JSIMS (M)
- PEO SC 21
- NRL
- NAWC
- NSWC
- CAN
- PEOCU

## USAF

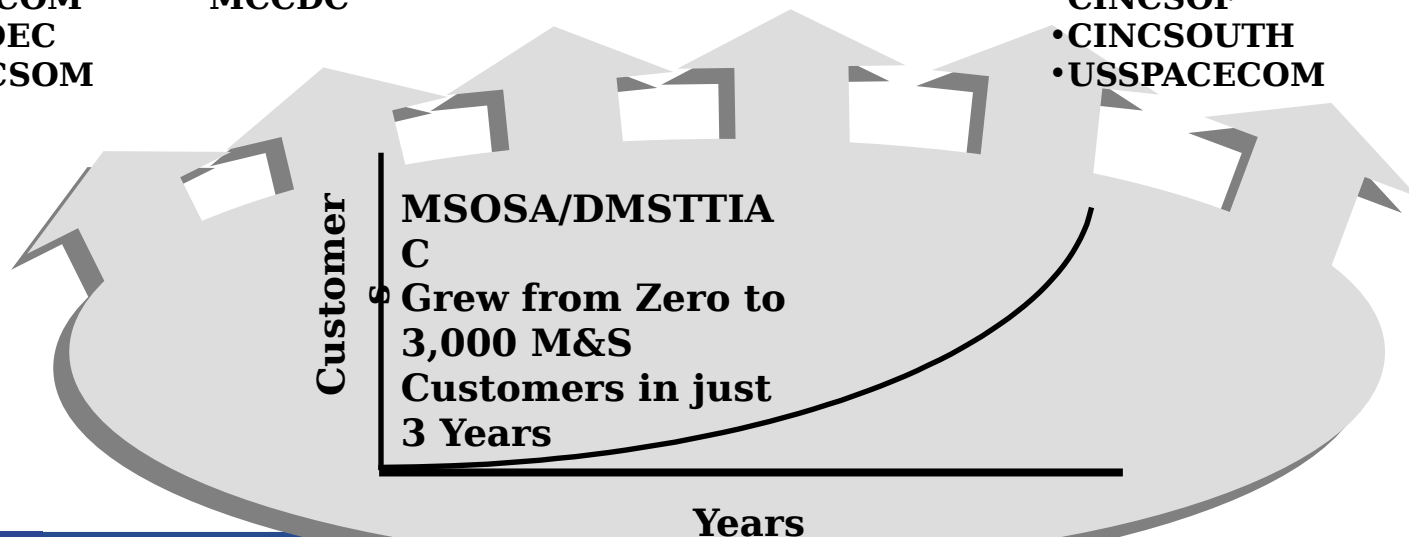
- Air Staff (XO, XP)
- ACC; ALC; AMC
- AFDTC
- AC2A
- JWID
- AJECT
- DMT
- EFX
- FPBL
- AFMC; AFRL

## JOINT

- J7, 8, 9
- JTASC
- JWFC
- WPC
- SOCOM
- ASDSOLIC
- JSF
- BMDO
- OSD C3I (CISA)
- CINCLANT
- CINCPAC
- CINCCENT
- CINCSOF
- CINCSOUTH
- USSPACECOM

## OTHER

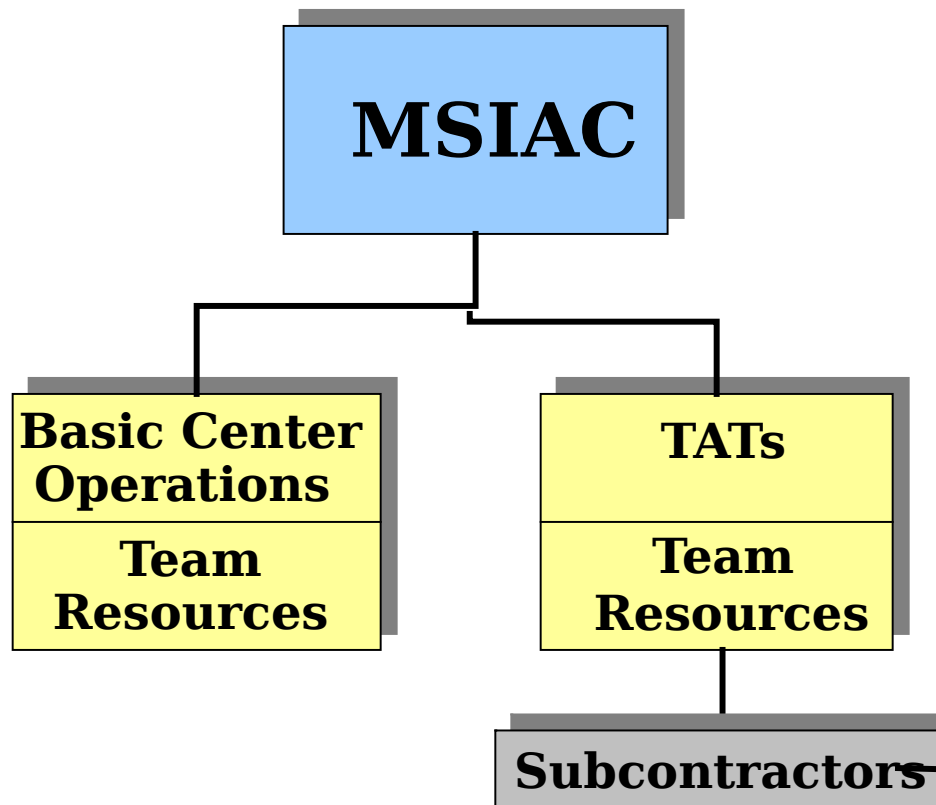
- National Guard
- Contractors
- NASA
- USDOT
- CMU
- GSA
- State Department
- FBI
- IRS
- USDOE
- USDOC



# MSIAC & the MSRR

- **MSIAC provides life cycle support to DMSO MSRR Node**
  - **Registrar**
  - **Help Desk**
  - **Systems Administration**
  - **Sustainment**
- **MSIAC Adds content to MSRR**  
(has more than doubled MSRR holdings since MSIAC award)
  - **Information in other repositories not duplicated**
  - **Recent Adds**
    - **Contents Joint Model Catalog provided by J-8**
    - **Extensive Inventory of Medical Models**
    - **Extensive Inventory of WMD Models**

# Pre-selected Subcontractors: “The M&S Community’s Proven ALL-STARS”



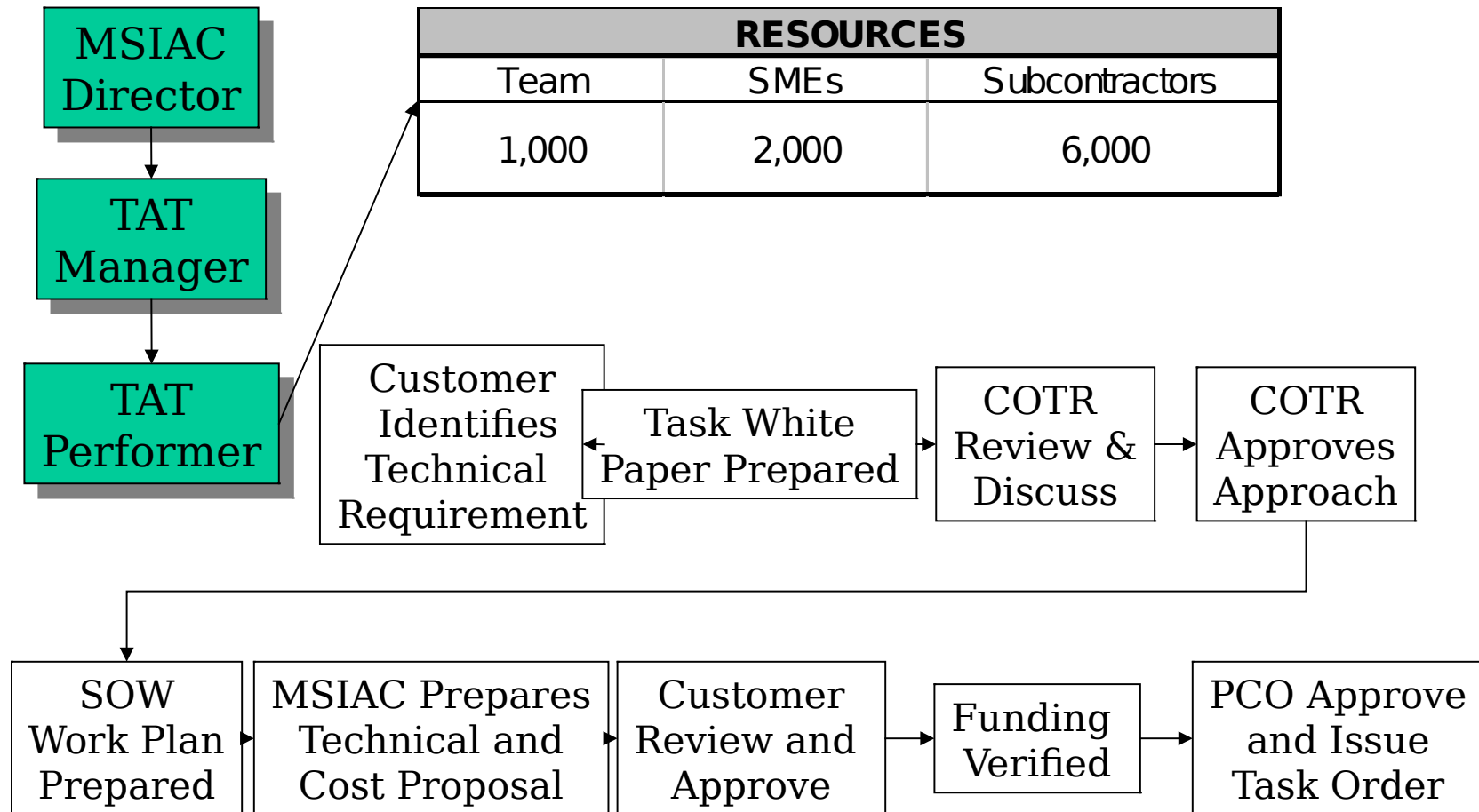
**Pre-selected subcontractors  
provide resources to  
supplement available staff  
expertise**

SB/SDB* Subcontractor	Participation Specialty
AEGIS	Education & Training
SAIC	SBA, Visualization
IMC*	CMMS
Innotiv (Augins)*	MSRR
Camber	Simulation, Training
VTC*	RTI Help Desk
ITT	M&S Technologies
Skyward*	Weapon Systems Models
UCF/IST	Education & Training
GTRI	HLA Tools
Nichols	Military Ops Analysis
Trident	Acquisition M&S

# Technical Area Task Categories

- **Operational support services**
  - **M&S Scientific and technical analysis**
  - **M&S education and training**
  - **M&S employment assistance**
  - **Technical and management support to MSRR**
  - **Software and documentation distribution**
  - **M&S conference support**
  - **VV&A technical assistance**
  - **High Level Architecture compliance support**
  - **Simulation impact assessments**
  - **Dedicated support task**
  - **Communications requirement definition and service allocation**
- (TATs performed on a fee for service basis)**

# Proven Process to Select the Right Resources to Perform TATs



**IITRI has Managed 100s of TATs**

# MSIAC Homepage



Address http://www.msiac.dnso.mil/ Links

**MODELING AND SIMULATION INFORMATION ANALYSIS CENTER**  
**msiac**

**MODELING AND SIMULATION  
INFORMATION ANALYSIS CENTER**

**HELP DESK**  
**M&S FAQs**  
**M&S CALENDAR**  
**M&S NEWS**  
**M&S LINKS**  
**MSRR**  
**DMSO**  
**DTIC**

*"Your 'one-stop-shop' for Modeling and Simulation information and assistance"*

Welcome to the [Defense Modeling and Simulation Information Analysis Center \(MSIAC\)](#) on the internet. Our mission is to assist Department of Defense activities in meeting their M&S needs by providing scientific, technical, and operational support information and services.

MSIAC is a Department of Defense Information Analysis Center, sponsored by the [Defense Technical Information Center](#) and the [Defense Modeling and Simulation Office](#).

[Modeling and Simulation IAC \(MSIAC\) - Awarded 18 May 99, to IIT Research Institute](#)

# To Contact the MSIAC



## **On the Internet**

**<http://www.msiac.dmsi.mil>**

**SIPRNet: <http://207.85.140.166>**

## **Email Address**

**[msiac@msis.dmsi.mil](mailto:msiac@msis.dmsi.mil)**

**For SIPRNET E-mail call the Help Desk**

## **MSIAC HELP DESK**

**(703) 998-1623/24**

**Fax: (703) 998-1625**

## **Toll Free Number**

**CONUS: 1-888-566-7672**

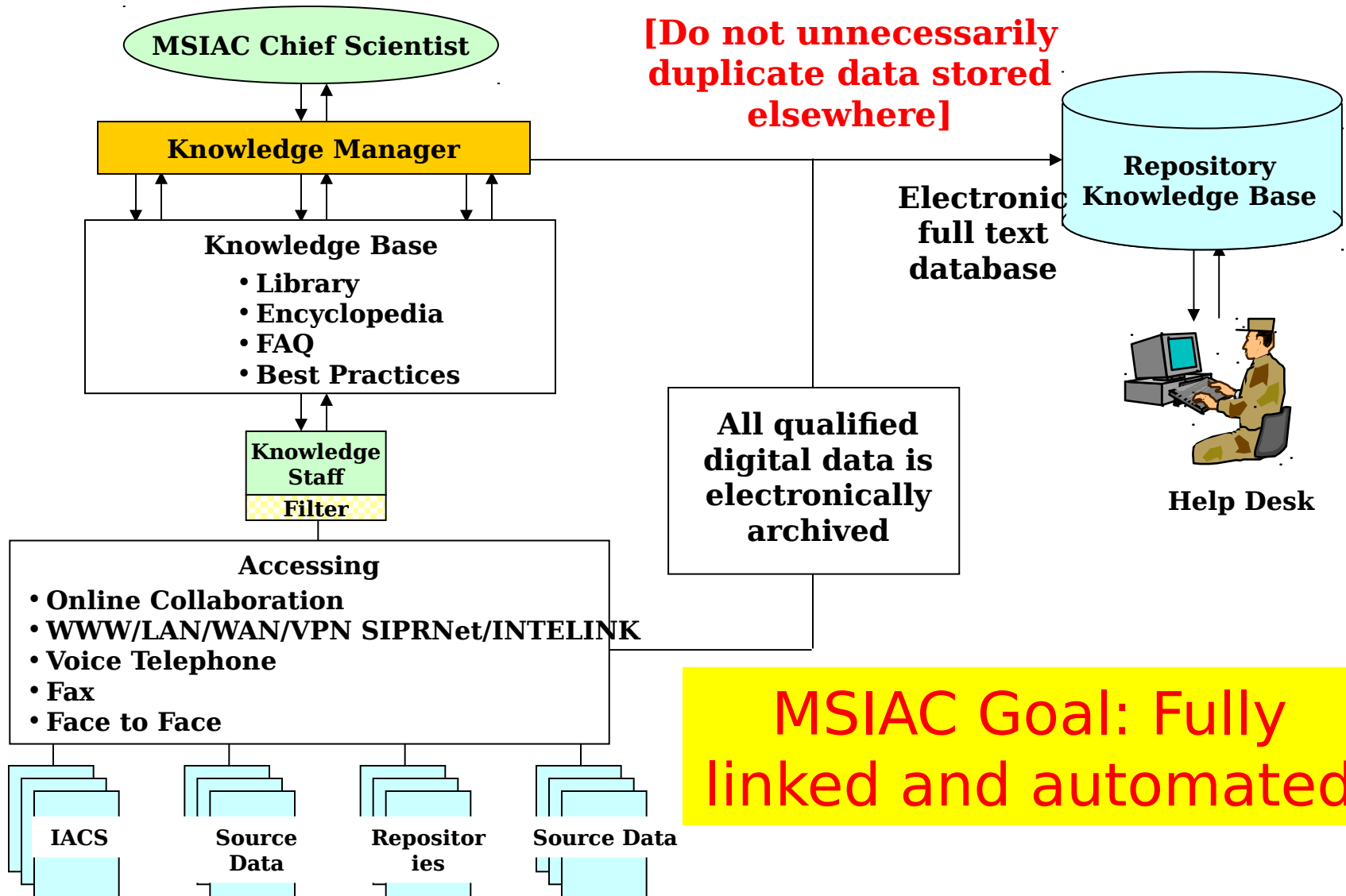
## **MSIAC Director**

**Phil Abold**

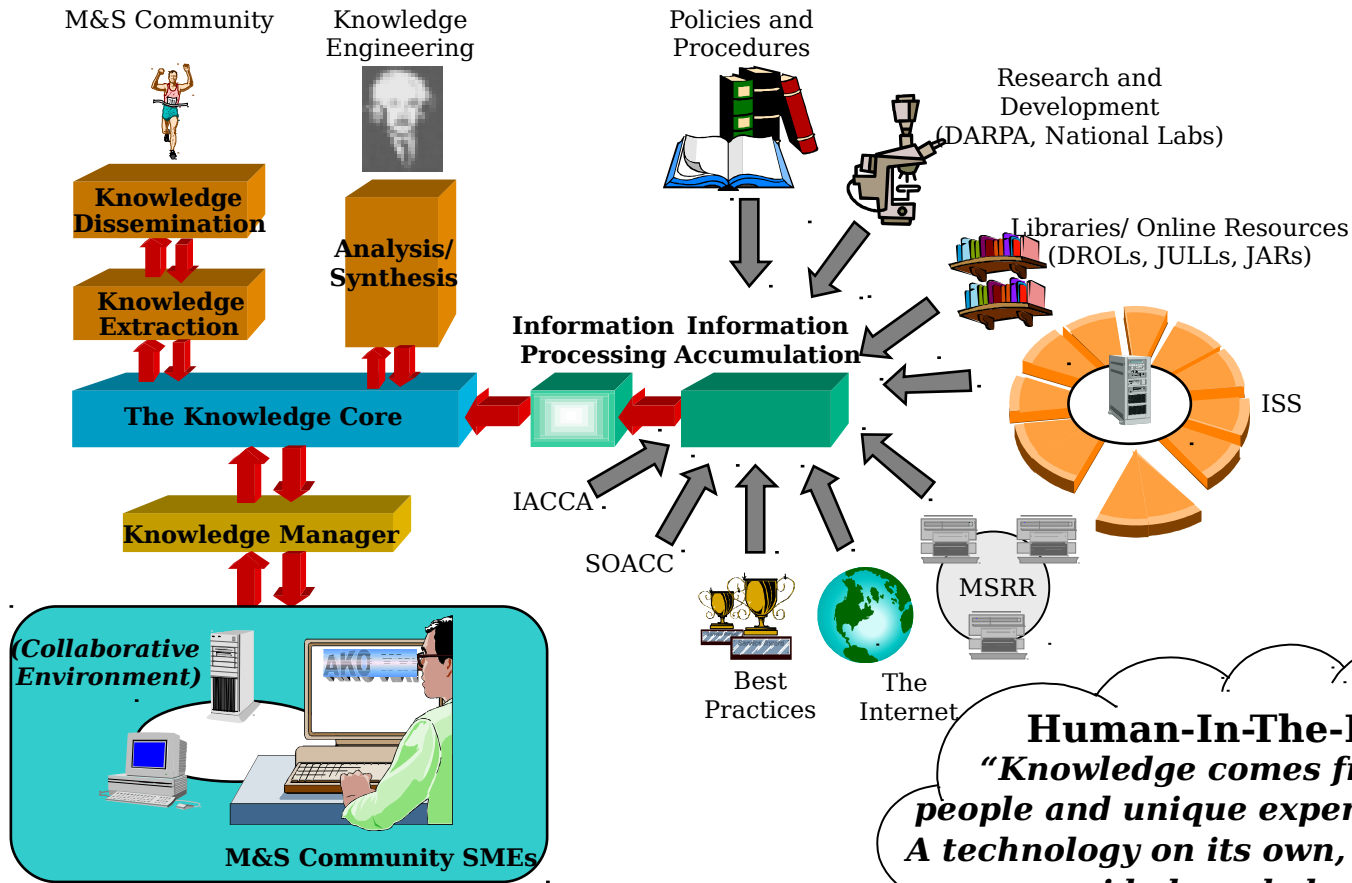
**(703) 998-1623      [pabold@msis.dmsi.mil](mailto:pabold@msis.dmsi.mil)**

# Back-up Slides

# Collect, Maintain, Archive, & Access M&S STOSI



# MSIAC: A Knowledge Based IAC



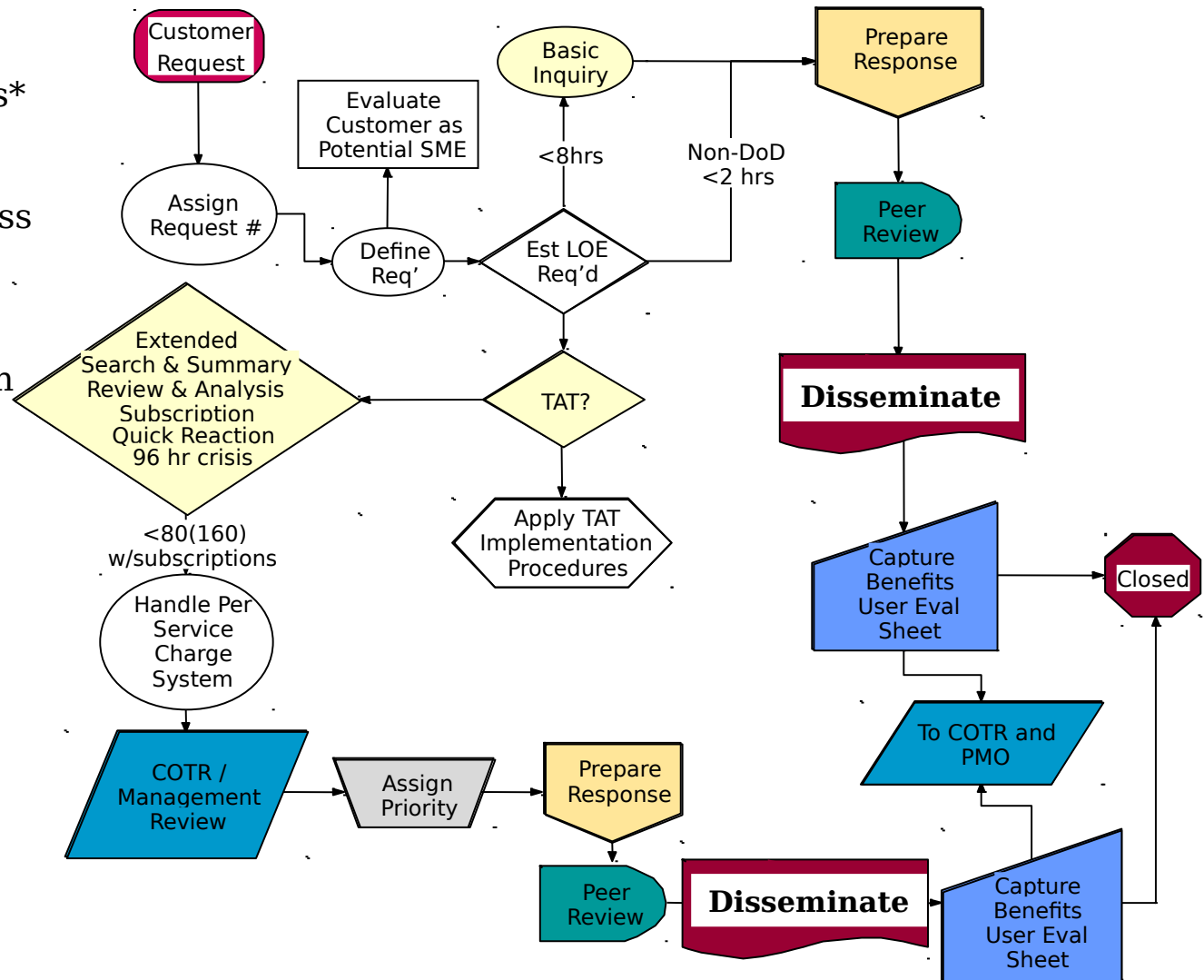
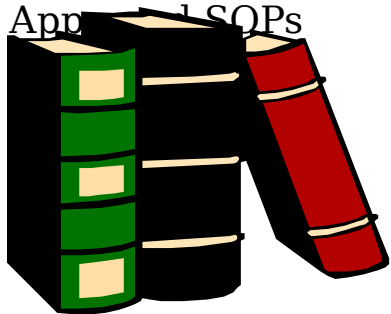
**“DoD Leaders in  
Knowledge  
Management”**

**Human-In-The-Loop**  
*“Knowledge comes from  
people and unique experiences.  
A technology on its own, can not  
provide knowledge”*  
Ref: Army Knowledge Online  
DISC4-SACC

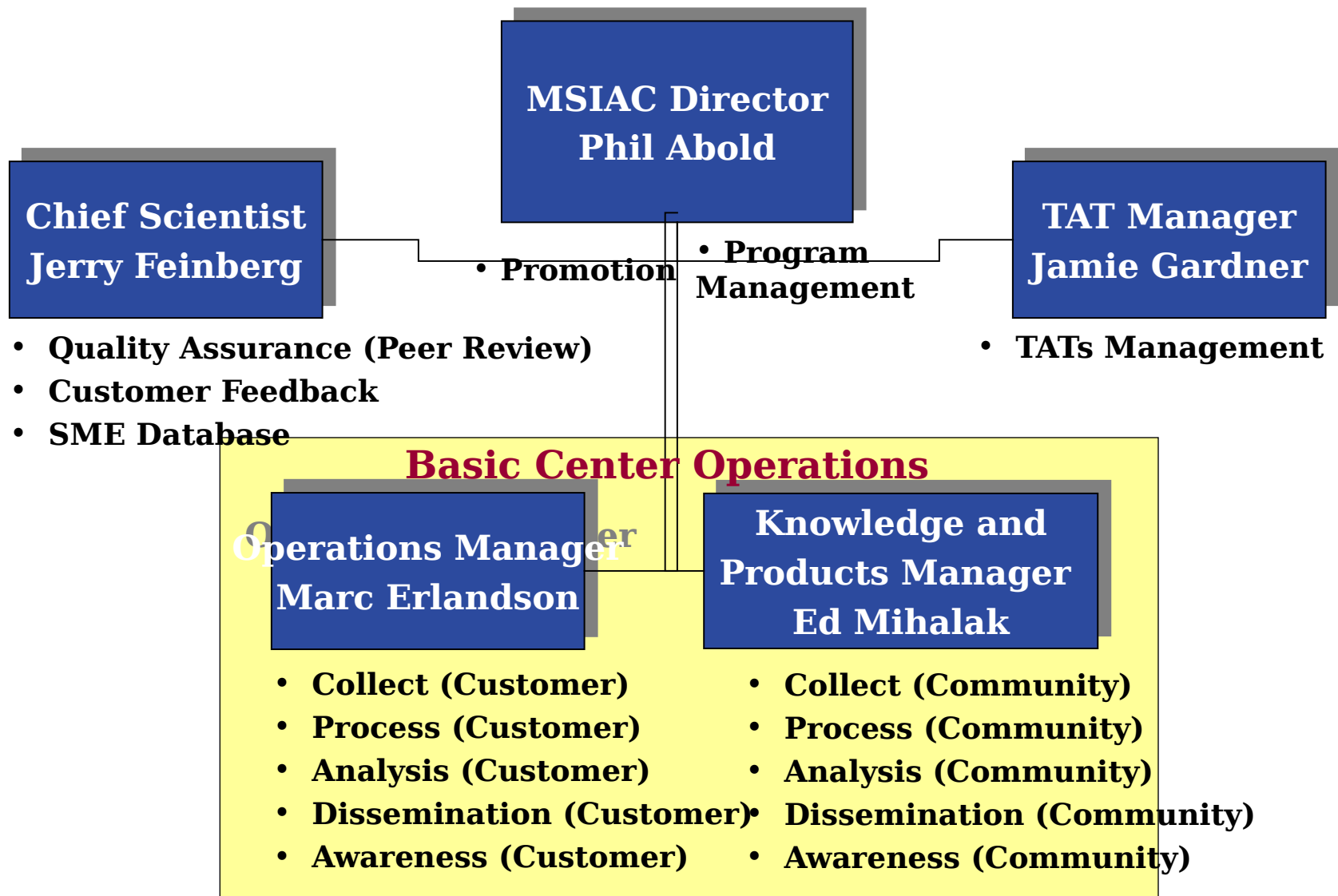
# MSIAC CONOPS

## CONOPS Table of Contents

Customer Service Process\*  
Help Desk SOP\*  
Prioritization SOP\*  
Group Peer Review Process  
Customer Feedback  
Procedures  
Web-based Feedback  
Product Dissemination  
SOP\*  
Software Dissemination  
Based on Existing  
Government  
Approved SOPs



# MSIAC Organizational Structure



# MSIAC Services

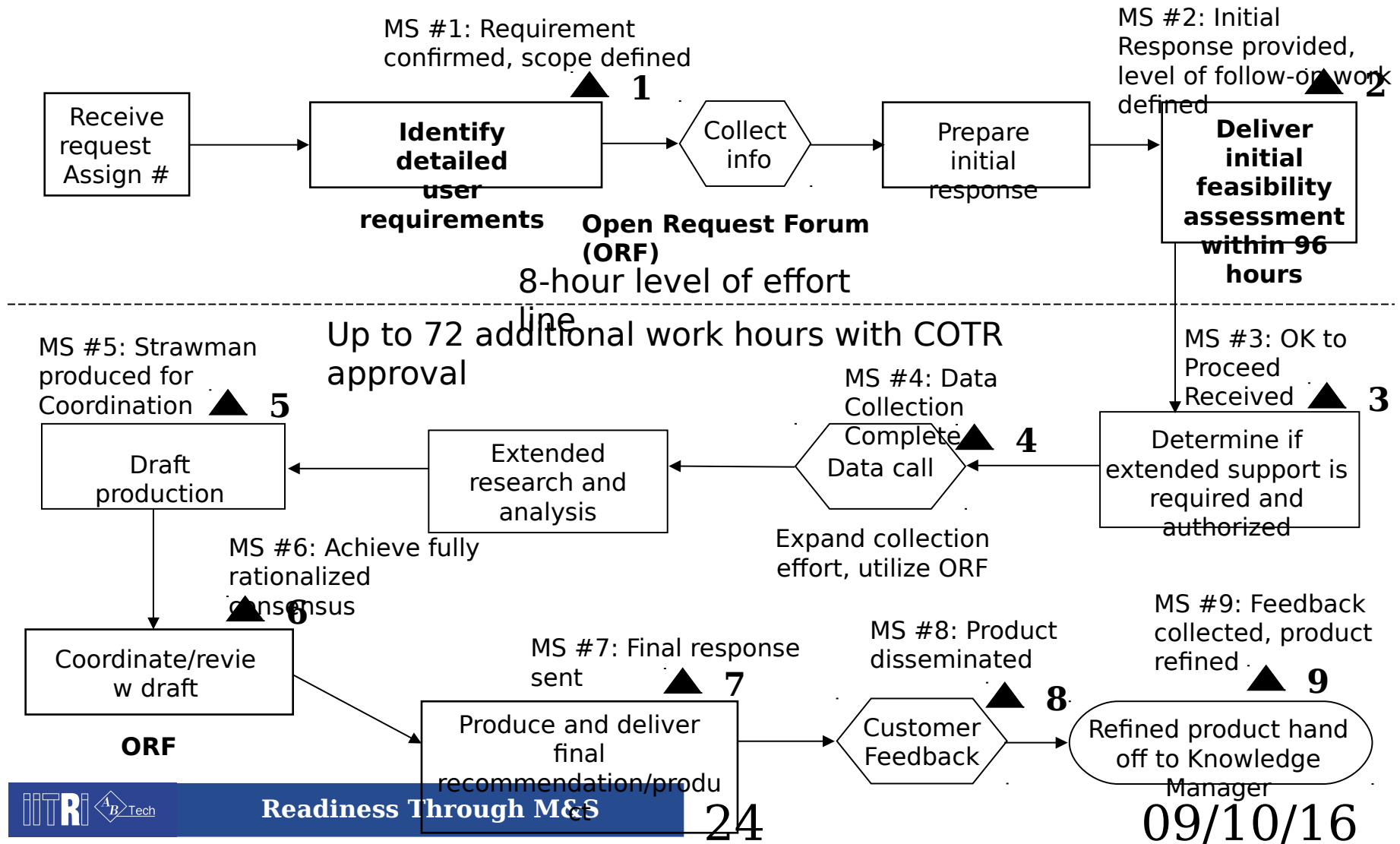
- The MSOSA M&S Help Desk, M&S Calendar, and Special Interest Area services remain in place and additional IAC functions focussed on M&S knowledge acquisition/dissemination and State of the Art Assessments are added
- Responses to basic M&S help desk inquiries provided free of charge within the following limits:
  - DoD customers - up to 8 staff hours of support
  - Other approved users - up to 2 staff hours
- Responses to inquiries requiring more extensive staff support (up to 80 staff hours) may be provided on a cost recoverable basis (subscription account)

Note: In those instances in which a customer does not have access to a subscription account, extended help desk inquiries can be supported as a TAT

# What is MSIAC?

- As of 1 June, MSIAC was the new “one stop shop” for M&S information and assistance
- The functions of MSOSA and the DMSTTIAC have merged into a single activity
- MSIAC is the new Information Analysis Center (IAC) exclusively focused on supporting the M&S community
- DMSO and Defense Technical Information Center (DTIC) are Co-sponsors
- MSIAC provides scientific, technical, and operational support services to the M&S community ranging from responses to Basic

# MSIAC Help Desk Process



# Incorporating IITRI's IAC ISS into Day 1 MSIAC Represents Significant User Savings

## IITRI ISS

Promotes  
information reuse

- M&S Resource Library
- Graphical User Interface
- Client-Server Application
- Access Control
- IAC Data Integration
- COTR/PCO/PMO all access
- **Automated DROLS**

Online and Operating Today—Identified by DTIC as IAC Leader

